AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

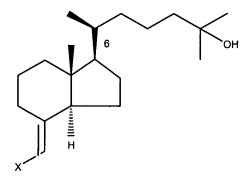
LISTING OF CLAIMS:

Claims 1-2. canceled.

Claim 3. (previously presented): A 1,25-dihydroxy-2-methylvitamin D_3 compound, wherein the compound is

- (i) $(20S)-1\alpha$, 25-dihydroxy-2 β -methyl-3 β -vitamin D₃;
- (ii) (20S)-1 β , 25-dihydroxy-2 β -methyl-3 α -vitamin D₃;
- (iii) (20S)- 1α , 25-dihydroxy- 2α -methyl- 3β -vitamin D₃; or
- (iv) (20S)- 1α , 25-dihydroxy- 2α -methyl- 3α -vitamin D₃.

Claim 4. (currently amended): A method for producing a vitamin D₃ compound described in claim 3, comprising reacting an exo-methylene compound of formula (II):



wherein X is a bromine atom or an iodine atom, with an eneyne compound of formula (III):

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wherein R3-R3 and R4-R4 are each independently a hydrogen atom or a tri (C_1 to C_7 hydrocarbon) silyl) silyl group in the presence of a palladium catalyst, and optionally removing the protecting group of the tri (C_1 to C_7 hydrocarbon) silyl) silyl group, and further wherein the vitamin D_3 compound is

- (i) $(20S)-1\alpha$, 25-dihydroxy-2 β -methyl-3 β -vitamin D₃;
- (ii) (20S)-1 β , 25-dihydroxy-2 β -methyl-3 α -vitamin D₃;
- (iii) (20S)- 1α , 25-dihydroxy- 2α -methyl- 3β -vitamin D₃; or
- (iv) (20S)- 1α , 25-dihydroxy- 2α -methyl- 3α -vitamin D₃.